

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR THERMIQUE

Publication
EP 2841867 A1 20150304 (EN)

Application
EP 13713660 A 20130315

Priority
• US 201213453503 A 20120423
• US 2013032069 W 20130315

Abstract (en)
[origin: US2013277020A1] A heat exchanger is adapted to be used in a vapor compression system, and includes a shell, a distributing part, a tube bundle and a trough part. The shell has a longitudinal center axis extending generally parallel to a horizontal plane. The distributing part is configured and arranged to distribute a refrigerant. The tube bundle includes a plurality of heat transfer tubes disposed below the distributing part so that the refrigerant discharged from the distributor is supplied onto the tube bundle. The heat transfer tubes extend generally parallel to the longitudinal center axis. The trough part extends generally parallel to the longitudinal center axis under at least one of the heat transfer tubes to accumulate the refrigerant therein. The trough part at least partially overlaps with the at least one of the heat transfer tubes when viewed along a horizontal direction perpendicular to the longitudinal center axis.

IPC 8 full level
F28F 25/02 (2006.01); **F28D 5/02** (2006.01); **F28D 7/16** (2006.01); **F28F 25/04** (2006.01); **F28F 25/08** (2006.01)

CPC (source: EP US)
F28D 5/02 (2013.01 - EP US); **F28D 7/1607** (2013.01 - EP US); **F28F 25/02** (2013.01 - EP US); **F28F 25/04** (2013.01 - EP US);
F28F 25/08 (2013.01 - EP US); **F25B 39/028** (2013.01 - US)

Citation (search report)
See references of WO 2013162761A1

Cited by
US11619428B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2013277020 A1 20131024; CN 104395687 A 20150304; CN 104395687 B 20170510; EP 2841867 A1 20150304; EP 2841867 B1 20160713; ES 2593403 T3 20161209; HK 1205246 A1 20151211; JP 2015518132 A 20150625; JP 6378670 B2 20180822; US 10612859 B2 20200407; US 2018112924 A1 20180426; WO 2013162761 A1 20131031

DOCDB simple family (application)
US 201213453503 A 20120423; CN 201380021216 A 20130315; EP 13713660 A 20130315; ES 13713660 T 20130315; HK 15105824 A 20150618; JP 2015508967 A 20130315; US 2013032069 W 20130315; US 201715838835 A 20171212